2021-22

QUALITY CONTROL TEST REPORTS

Client:Executive Engineer,Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency: Sri. Purushotham Raju N,Contractor, Bangalore.

Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Quality

M/s. CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech &Road Materials Testing Laboratory)
An ISO 9001: 2017 Certified Company

#133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore-560056
e-mail: civilqualityconsultants@gmail.com Ph: 8553518550/9886998316

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QC ABSTRACT

Nameof Work: Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes
1	PCC 1:3:6	82.17 Cum	1	1	Cement Sand, Aggregates
2	M25	14.05 Cum	2	4	Cement Cube Compressive Strength
3	Steel	2.46 Tonnes	1	1	-
4	PVC 110mm	131.8 Rmt	1	1	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set
Add 1set for extra 50Cum	

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

AE / JE (P) RRN

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

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ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2021-22 Date:24.02.2022

TEST REPORT ON CEMENT

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample : :Cement (Birla Super 53 grade OPC)

Sample Supplied by: :AGENCY

Date of Manufacture: : January - 2022

Date of Testing : 22.02.2022 to 24.02.2022

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	385Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50%	-

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AE / JE (P) RRN

A.E.E (P) R.R. Nagar

Authorised Signatory

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2021-22

Date : 24.02.2022

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing : 24.02.2022

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	183	1.22	1.22	98.78	95-100
20	4625	30.83	32.05	67.95	30-70
10	5362	35.75	67.80	32.20	10-35
4.75	4321	28.81	96.61	3.39	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2021-22 Date : 24.02.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing : 24.02.2022

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	93	9.30	9.30	90.7	90-100
2.36	156	15.60	24.90	75.1	75-100
1.18	201	20.10	45.00	55.0	55-90
600 Micron	157	15.70	60.70	39.3	35-59
300 Micron	236	23.60	84.30	15.7	8-30
150 Micron	104	10.40	94.70	5.3	0-10

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Job No.: CQCE/BBMP/PRN/W.No.17/2021-22 Date : 24.02.2022

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Date of Testing : 24.02.2022

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	201	4.0	4.0	96.0	95-100
10	2578	51.6	55.6	44.4	25-55
4.75	1822	36.4	92.0	8.0	0-10

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Job No.: CQCE/BBMP/PRN/W.No.17/2021-22

Date: 24.02.2022

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building At JP Park in Ward No 17, BBMP, Bangalore.

Sample Identification : 8mm, 10mm, 12mm, 16mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 24.02.2022

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.388	513	594	16
2	Fe 500	10	0.618	508	612	21
3	Fe 500	12	0.889	527	605	15.5
4	Fe 500	16	1.582	531	627	18

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2021-22

TEST REPORT ON PVC PIPE

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of Work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample Supplied by: :AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 110mm dia

Date of Testing : 24.02.2022

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	110	110 mm
2	Mean Outside Diameter (mm)	110.2	Min 110.0 mm Max 110.4 mm
3	Outside Diameter at Any Point (mm)	110.8mm	Min 108.6 mm Max 111.4 mm

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2020-21 Date: 14.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.03.2022	14.03.2022	8.103	418.5	18.60
2	07.03.2022	14.03.2022	8.065	423.6	18.83
3	07.03.2022	14.03.2022	8.017	404.7	17.99

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2020-21

Date: 14.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.03.2022	14.03.2022	8.196	398.5	17.71
2	07.03.2022	14.03.2022	8.152	409.6	18.20
3	07.03.2022	14.03.2022	8.113	415.2	18.45

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21

Date: 17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	**: Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.03.2022	17.03.2022	8.026	400.3	17.79
2	10.03.2022	17.03.2022	8.049	417.6	18.56
3	10.03.2022	17.03.2022	8.078	428.3	19.04

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Job No.:

17.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete

1 **Size of cubes** : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.03.2022	17.03.2022	8.116	419.3	18.64
2	10.03.2022	17.03.2022	8.038	405.2	18.01
3	10.03.2022	17.03.2022	8.094	423.7	18.83

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Job No.:

04.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

1

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.03.2022	04.04.2022	8.016	602.5	26.78
2	07.03.2022	04.04.2022	8.037	628.3	27.92
3	07.03.2022	04.04.2022	8.049	614.3	27.30

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2020-21

Date: 04.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.
Agency	: **Sri. Purushotham Raju N,** Contractor, Bangalore.
Name of the work	: Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	07.03.2022	04.04.2022	8.100	610.7	27.14
2	07.03.2022	04.04.2022	8.082	601.8	26.75
3	07.03.2022	04.04.2022	8.037	622.9	27.68

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Job No.: CQCE/BBMP/PRN/W.No.17/2020-21

Date: 07.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.03.2022	07.04.2022	8.007	600.7	26.70
2	10.03.2022	07.04.2022	8.045	629.5	27.98
3	10.03.2022	07.04.2022	8.121	616.5	27.40

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/PRN/W.No.17/2020-21

Date: 07.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** Project Division, RR Nagara Zone, BBMP, Bangalore.

Agency : **Sri. Purushotham Raju N,** Contractor, Bangalore.

Name of the work : Construction of Market Building at JP Park in Ward No 17, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{25}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.03.2022	07.04.2022	8.109	620.3	27.57
2	10.03.2022	07.04.2022	8.150	609.7	27.10
3	10.03.2022	07.04.2022	8.177	614.2	27.30

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30days from the date of testing.

AE / JE (P) RRN

A.E.E (P)
R.R. Nagar

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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